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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/702,086	11/06/2003	David Mosenkis	1866.0420001	1866.0420001 8229	
26111	7590 03/08/2005	EXAMINER			
	ESSLER, GOLDSTE ORK AVENUE, N.W.	NGHIEM, MICHAEL P			
WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER	
	•		2863		

DATE MAILED: 03/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AL

Office Action Summary		Applicat	ion No.	Applicant(s)			
		10/702,0	086	MOSENKIS, DAVID			
		Examine	er	Art Unit			
		ľ	P. Nghiem	2863			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office tater than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) 🗌	Responsive to communication(s) filed on						
2a) <u></u> □	This action is FINAL . 2b)	action is FINAL . 2b) This action is non-final.					
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
•	☑ Claim(s) <u>1-17</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
· · ·	Claim(s) is/are allowed. Claim(s) 1,12,13 and 15 is/are rejected. Claim(s) 2-11,14,16 and 17 is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
•							
·							
Application Papers							
9)	The specification is objected to by the E	xaminer.					
, —	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.							
3) 🛛 Infor	r No(s)/Mail Date <u>12-2-03</u> .			ratent Application (PTO-152)			

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DETAILED ACTION

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 12, 13, and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Sem et al. (US 2003/0008326).

Regarding claims 1, 12, and 15, Sem et al. discloses a method and product of identifying a three-dimensional molecular structure (Abstract, lines 1-3), comprising:

- accessing a computer readable representation of a reference structure having a plurality of residues (paragraph 0064, lines 1-14);
- calculating interaction between said plurality of residues and the molecular structure (paragraph 0069, lines 1-5);
- producing a residue fingerprint based on said interaction to identify the molecular structure (paragraph 0121, lines 13-16).

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Regarding claim 13, Sem et al. discloses classifying the plurality of molecular structures into clusters based on said plurality of residue fingerprints, each cluster of molecular structures having a similar binding mode (paragraph 0121, lines 13-16).

Allowable Subject Matter

2. Claims 2-11, 14, 16, and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Reasons For Allowance

3. The combination or method as claimed wherein denoting said residue as an interacting residue when the interatomic distance is less than a predetermined threshold (claims 2, 6-10, 16, 17) or computing the similarity between the molecular structure and said second molecular structure based on said residue fingerprint and said second residue fingerprint (claim 11) or computing a Tanimoto score among the molecular structures in each cluster of the plurality of molecular structures, wherein each pair of structures within a cluster of molecular structures has a similar Tanimoto score (claim 14) is not disclosed, suggested, or made obvious by the prior art of record.

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Contact Information

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4. Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Michael P Nghiem whose telephone number is (571)

272-2277. The examiner can normally be reached on M-H.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

MICHAEL NGHIEM PRIMARY EXAMINER

Michael Nghiem

March 2, 2005